PROJECT DESCRIPTION

I - GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING VEHICULAR TRAFFIC SIGNAL HEADS ON THE EXISTING SIGNAL MAST ARMS AND THE REPLACEMENT OF THE EXISTING PEDESTRIAN SIGNALS AND PUSHBUTTONS WITH NEW APS/CPS ASSEMBLIES ON PEDESTRIAN PEDESTAL POLES FOR THE SOUTH LEG CROSSING OF US 1 (SECOND STREET). US 1 IS ASSUMED TO RUN IN THE NORTH - SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE EXISTING THREE-PHASE OPERATION AT THE INTERSECTION WILL REMAIN WITH PHASES 4 AND 8 RUNNING CONCURRENTLY.

III. CONTROLLER REQUIREMENTS

USE EXISTING CONTROLLER. INSTALL NEW 2-WIRE CENTRAL CONTROL UNIT FOR APS.

SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:

- A. FOR US 1 (SECOND STREET) WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS SECOND AT BOWIE WAIT"
- B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK. WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	CAT CODE	QUANTITY	DESCRIPTION						
2003	203030								
2003	203030	1 CY	TEST PIT EXCAVATION						
8001	800000	2 EA	16 INCH LED PEDESTRIAN COUNTDOWN SIGNAL HEAD						
8002	800000	2 EA	AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON AND SIGN ASSEMBLY						
8003	800000	1 EA	2 WIRE CENTRAL CONTROL UNIT (FOR APS BUTTON)						
8004	800000	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT						
8005	801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION						
8008	801607	2 SF	INSTALL SHEET ALUMINUM SIGN						
8009	802145	2 EA	ADJUST EXISTING HANDHOLE						
8010	802501	65 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE						
8011	805135	65 LF	3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED						
8014	818004	2 EA	10 FOOT BREAKAWAY PEDESTAL POLE						
8015	837001	2 EA	GROUND ROD - 3/4" DIAMETER X 10' LENGTH						
8016	860284	18 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION						
8017	861105	335 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)						
8018	861107	410 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)						
8019	861108	340 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)						

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

1 2 3 4 5 6 7 8

	R Y G	R Y G	(R) (Y) (G)	R Y G	R Y G	(R) (Y) (G)	\$80	\$88	
PHASE 6	G	G	R	R	R	R	DW	DW	Т.
6 CHANGE	Y	Υ	R	R	R	R	DW	DW	>·
PHASE 4 & 8	R	R	G	G	G	G	DW	DW	
4 & 8 CHANGE	R	R	Υ	Υ	Y	Y	DW	DW	
4 & 8 ALT.	R	R	G	G	G	G	WK	WK	1
PED. CLEAR	R	R	G	G	G	G	FL/DW	FL/DW	
4 & 8 ALT. CHANGE	R	R	Y	Υ	Y	Y	DW	DW	°
PRE-EMPTION #1	R	R	G	G	R	R	DW	DW	-
CHANGE	R	R	Y	Y	R	R	DW	DW	· +
PRE-EMPTION #2	G	G	R	R	R	R	DW	DW	 · _
CHANGE	Υ	Υ	R	R	R	R	DW	DW	—→>
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	↓ ↑ ↑ ↓ ↓

NOTE: NO CHANGE TO EXISTING OPERATION

CONTACTS

DISTRICT 3

MR. BRIAN YOUNG DISTRICT ENGINEER 301-513-7311

410-787-7630 MS. FELECIA MURPHY

ASSISTANT DISTRICT ENGINEER - TRAFFIC

301-513-7358 MR. VICTOR GRAFTON

ASSISTANT DISTRICT ENGINEER - UTILITIES 301-513-7350

MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336

MR. VERNON STINNETT ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

410-787-7630

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS

410-787-7650

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

410-787-7670

MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

CAT CODE

933012

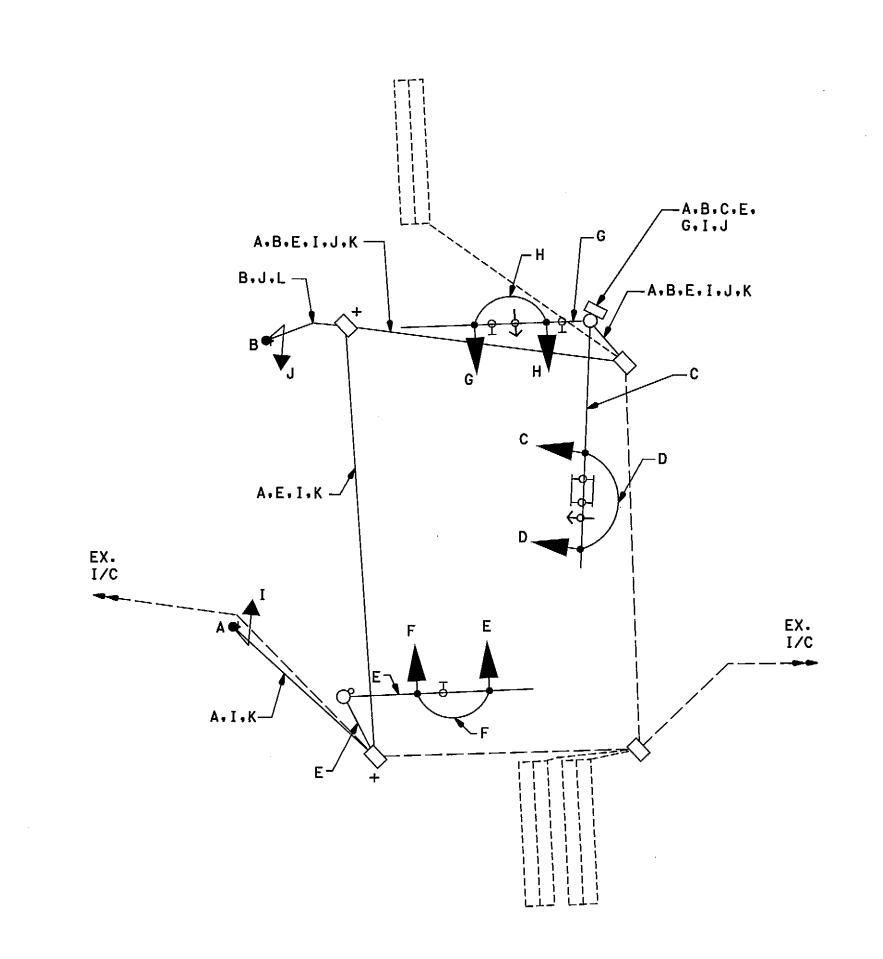
QUANTITY

2 SF

<u>DESCRIPTION</u>

SHEET ALUMINUM SIGNS 2 EA - R10-3(1) (9"X15")

WIRING DIAGRAM



WIRING LEGEND

2 - CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) A.B D.F. 5 - CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) H.I.J C.E.G 7 - CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) K.L STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

GROUND ROD

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION NORTHBOUND US 1 (SECOND STREET) AT BOWIE ROAD LAUREL, MD

GENERAL INFORMATION SHEET



WALLACE, MONTGOMERY & ASSOCIATES, LLP

(410) 494-9093, (410) 825-5714 Fax www.WallaceMontgomery.com

SCALE NOT TO SCALE DATE AUG 2010 CONTRACT NQ. PG65355130 DESIGNED BY _ COUNTY PRINCE GEORGE'S LOGMILE _ 16000113.40 CHECKED BY ___ F.A.P. NO. SEE TITLE SHEET TOD NO._ DRAWING NO. TS-1631E **SG-02** OF 02 SHEET NO. 10 OF 10

PLOTTED: Wednesday, September 29, 2010 AT 04:04 PM FILE: M:\PROJ\205015.13\WMA-SUBMITTALS\2010-09-20 - PS&E Signal\10 pSG-N001_US1.dgn

REVISION E CONSULTANT

CIVIL AND STRUCTURAL ENGINEERS 110 West Road, Suite 300 Towson, Maryland 21204

9/29/2010 4: 04: 59 PM M: \PROJ\205015.13\WMA-SUBMITTALS\2010-09-20 - PS&E Signal\10 pSG-N001 US1.don